

Detail Report

Report information

Report generated date	09-15-15
Systems/tags included in this report:	AHU-1, AHU-2, AHU-3, AHU-4, AHU-5, AHU-6, AHU-7

Project Information

Project name	VAMC Cheyenne
Project description	replacement
Project status	Open
Project phase	Design
Project location	
Unit of measure	Inch-pound

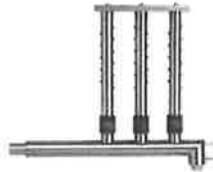
System/tag AHU-1

System images

STS humidifier



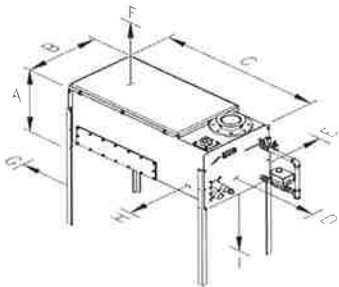
Rapid-sorb steam dispersion



Vapor-logic controller

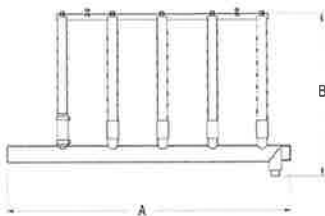


Steam generator dimensions and clearances



Dimensions (in.)			Clearances (in.)						
A	B	C	D	E	F	G	H	I	
19.5	30.25	55.15	36	6	18	6	36	24	

Dispersion dimensions



Dimensions (in.)		
A	B	C
71.0	58.0	3

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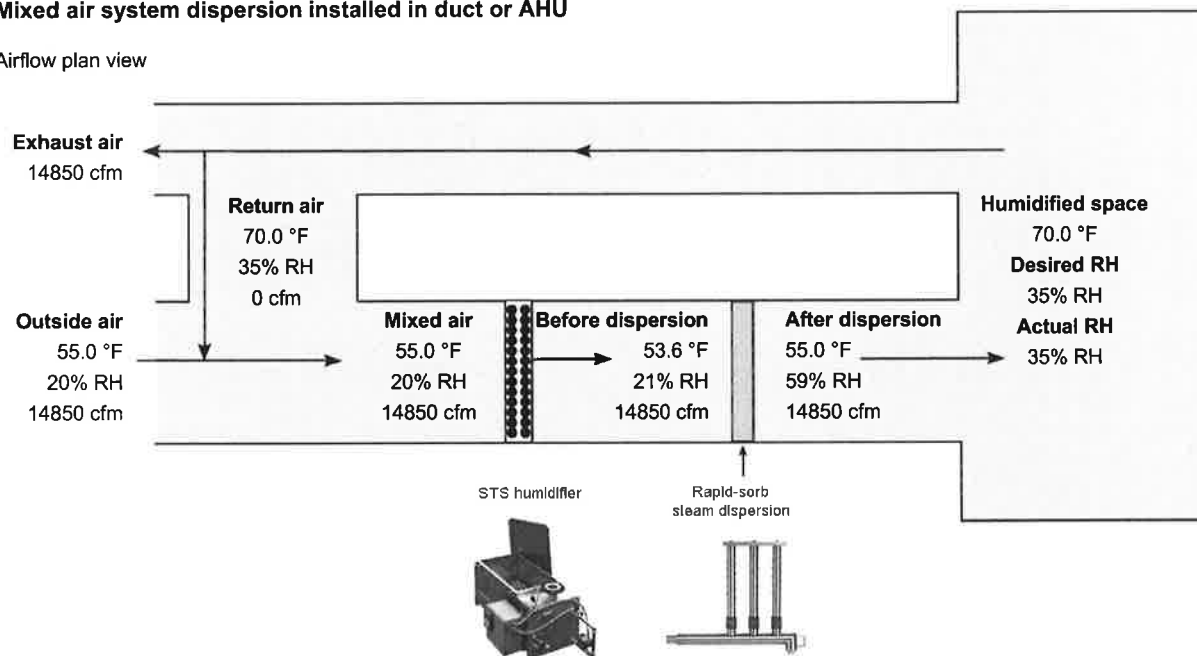
Project name VAMC Cheyenne

System/tag AHU-1

System view

Mixed air system dispersion installed in duct or AHU

Airflow plan view



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System/tag AHU-1, continued		Steam dispersion	
Application		Dispersion product	Rapid-sorb
Elevation at project site (ft)	6000.0	Dispersion model	2"
Ventilation system type	Mixed Air System, Dispersion Installed In Duct Or AHU	Tube Size	2"
Outside air dry bulb temperature (°F)	55.0	Unit quantity	1
Outside air moisture content (%RH)	20.0	Header location	Inside AHU
Outside air intake rate	Constant	Trap location	Outside AHU
Outside air intake (%)	100.0	Air movement	Through Dispersion Assembly Perimeter Blanked Off
Total air volume (cfm)	14850	Available inside duct/AHU width (inches)	72
Desired air dry bulb temperature (°F) in humidified space	70.0	Available inside duct/AHU height (inches)	60
Desired air moisture content (% RH) in humidified space	35.0	Duct/AHU wall thickness (inches)	2
Actual moisture content (% RH) in humidified space	35.0	Face width (inches)	66.0
Non-wetting distance (inches)	16	Face height (inches)	48
Calculated load	Calculated	Header diameter	3
Load (lbs/hr)	239.07	Overall dimensions W x H x L (inches)	71 X 58 X 3
Load plus loss (lbs/hr)	247.64	Air velocity (ft/min)	675.0
Dispersion installation location	AHU	Tube diameter (inches)	2.0
Airflow direction	Horizontal	Tube spacing on-center (inches)	12
Airflow pressure drop (inches w.c.)	0.0	Tube quantity	5
Duct dry bulb temp before dispersion (°F)	53.6	Header and tube material	304 Stainless Steel
Duct RH before dispersion (%)	21	Duct plate material	Galvanized Steel
Duct dry bulb temp after dispersion (°F)	55.0	Second set of duct plates	No
Duct RH after dispersion (%)	59	High-Efficiency Insulated Tubes	Yes
Heat gain from steam (°F)	1.13	Ship unassembled	Yes
Heat gain from assembly (°F)	0.23		

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System/tag AHU-1, continued	
Steam dispersion	
Operating weight (lbs)	2
Shipping weight (lbs)	3
Steam generation	
Generation product	Steam-to-Steam
Generation model	200
Unit quantity	1
System capacity (lbs/hr)	300.0
Water type	RO/DI
Energy source	Steam To Steam
Voltage (Vac)	120
Steam pressure (psi)	15.0
Heat exchanger	Stainless
Amps per unit(s)	3.0
Steam valve controlled by	Others
Valve size (inches, Cv)	1.5, 28.0
Trap size (inches)	1
Overall dimensions W x H x L (inches)	19 X 30 X 55
Operating weight (lbs)	850
Shipping weight (lbs)	245
Tank material	304 Stainless Steel
Enclosure	None
Heater package	No
Support	Legs
Ship curb early	No

Steam generation, continued	
End-of-season drain	Yes
Low-water float switch	Yes
Tank insulation	Yes
Seismic certified humidifier	No
Notes	
Damage caused by chloride corrosion is not covered by your DriSteem warranty.	
Connections	
Steam generator outlet connection type	Flange
Steam generator outlet diameter (inches)	3
Dispersion steam inlet flange material	Stainless Steel
Dispersion steam inlet connection type	Screw-on Flange
Dispersion steam inlet diameter (inches)	3
Dispersion same side piping	No
Control	
Humidifier controller	Vapor-logic
Multiple-tank control	No
Interoperability	None
Freeze protection	No
Keypad/display	Shipped Loose
Keypad/display cable (ft)	5
Keypad/display language	English
Keypad/display unit of measure	Inch-pound
Input signal type	Controlled By Others
Remote temperature sensor	No
Control cabinet	NEMA12
Control cabinet mounted on humidifier	Yes

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System/tag AHU-1, continued	
Control, continued	
Control cabinet door lock	No
Control cabinet door interlock safety switch	No
Accessories	
Generation Condensate Pump	None
Dispersion Condensate pump	None
Generation Drane-kooler	No
Dispersion Drane-kooler	No
NEMA-1 safety switch	No
High-limit humidistat	Electric, On-off
Airflow proving switch	Electric Pressure